



To: All Distributor Personnel

Monthly bulletin: Number 10

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National Sales Director-Valves

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Subject: Tube-O-Matic® Valve Series Product Spotlight

This month's bulletin is designed to give everyone a more enlightened view of our Tube-O-Matic® series product line. This uniquely designed valve was developed over thirty years ago to solve the problems associated with wear and maintenance when controlling abrasive and corrosive media such as sand blasting compounds, metal chips, liquid or powdered chemicals, machine tool coolant, gases, slurries or virtually any other type of gaseous, liquid or semi-solid media to name a few.

The TUBE-O-MATIC® has been designed to include the excellent features of a pinch valve *without the inherent weaknesses*. The tube sleeve in the TUBE-O-MATIC® does not collapse entirely as the tubing does in a typical pinch valve. Our tube closes on the airfoil center core when cycling. Because of this design, the travel of the tube (the only moving part inside the valve body) is substantially reduced, which leads to an extended service life of the valve.

The normally open TUBE-O-MATIC® valve design allows media flow in both directions. This feature can prove invaluable in systems requiring both forward and reverse control of media flow. Our tube is controlled by an external pneumatic (any compatible gas) or hydraulic (oil, water or other compatible liquid) pilot pressure signal. To close the valve, pilot pressure is applied, closing the tube around the center core and sealing bubble tight. To open the valve, pilot pressure is exhausted, allowing full flow. The small tube deflection permits a high cycle rate with minimal flow noise and the design is inherently "water hammer" free when using fluids. Our design features a straight-through flow path that eliminates the build-up of solids in the valve body, causing it to act as a self-flushing unit.

With a C_v range of 4.0 to 75.0 and pipe sizes available from 1/4" NPT to 2 1/2" NPT, TUBE-O-MATIC® offers a valve to fit any application. The airfoil design of the center core and the straight-through flow path result in flow capacities that compare to ball valves of similar size.

These products have found their way into applications in virtually any industry where service temperatures range from -25 through 400 degrees F at media pressures up to 150 PSI. This product line has been used to replace valves of all types of including gate, globe, butterfly, poppet and ball valves of several styles.

Our TUBE-O-MATIC® valves work well in handling liquids, liquids with solids present, dry powders (with minimal air pressure), granular material, slurries and gases. However, they should not be used in steam service. Also note that EPR sleeves can not be used with media that contains petroleum

based lubricants (i.e. lubricated main or pilot media) as EPR is not compatible with petroleum based products. They are well suited for food and pharmaceutical service because of available stainless steel wetted parts as well as odorless and tasteless Buna-N tube sleeves.

Some of the materials that have been successfully passed through the TUBE-O-MATIC® include:

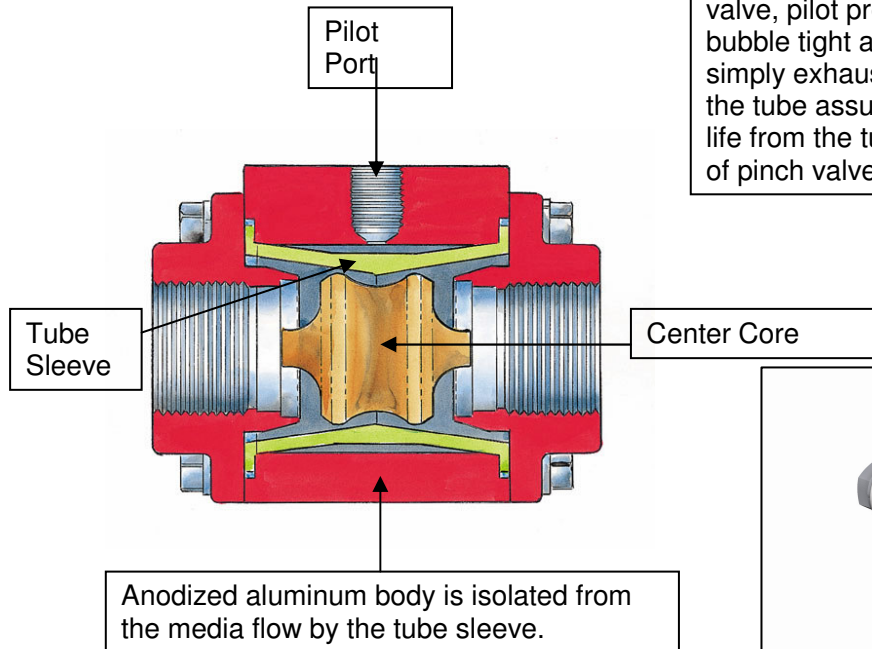
Acid Mine Water	Fly Ash	Potash Slurry
Acids of Many Types	Grain	Pulp Stock
Aluminum Powder	Grinding Compound	Salt Brine
Asbestos	Ilmenite	Sand
Beer	Iron Shot	Sand Blast Shot
Benzene	Juices of Several Types	Sand Slurry
Bleach Liquor	Latex	Sea Water
Catalysis Granules	Leaching Slurry	Sewage Effluent
Carbonates and Water	Lead Ore Slurry	Silicon Carbide Granules
Ceramic Slip	Lime Slurry	Sludge
Cement Slurry	Limestone Dust	Sodium Silicate
Clay Slurry	Lube Oils	Sugar Pulp
Coal Fines and Water	Magnesium Slurry	Sugar Granules
Coolants	Masonite Stock	Sweet Water
Copper Ore Slurry	Milk of Lime	Taconite Slurry
De-ionized Resin	Ore Tailings	Titanium Oxide
Detergents	P.V.C. Granules	Uranium Ore Slurry
Distilled Water	Phosphate Slurry	Vegetable Oils
Dusty Air	Pickle Broth	Vegetable Puree
Electrolyte	Plaster of Paris	Vinyl Chips
Flotation Media	Porcelain Frit	White Liquor

The list of materials above is in no way inclusive of everything that can pass through our valve. If you have an application for a media that is not listed, please contact the factory for assistance.

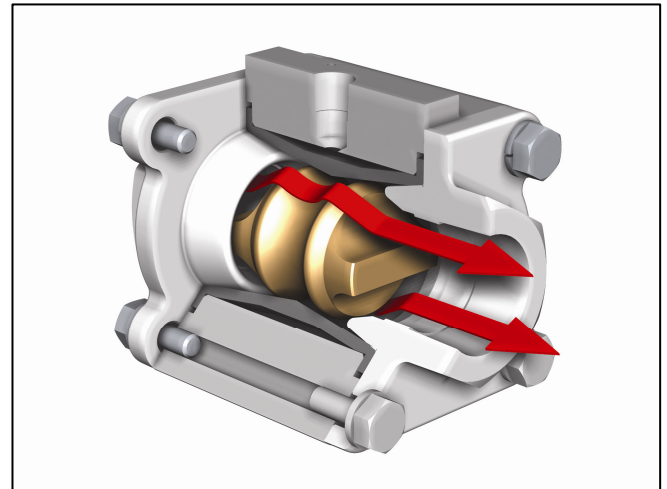
Tube-O-Matic®

How It Works

The Tube-O-Matic® tube sleeve is controlled by external pneumatic or hydraulic pressure. To close the valve, pilot pressure is applied, closing the sleeve bubble tight around the center core. To open the valve, simply exhaust the pilot pressure. The limited flexing of the tube assures a high cycle rate and extremely long life from the tube when compared to most other brands of pinch valves.



Easy to service design, simply remove the end caps and replace the only moving part in the valve, the sleeve.



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Visit our website www.lexairinc.com and click on the TUBE-O-MATIC® images for more information.

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